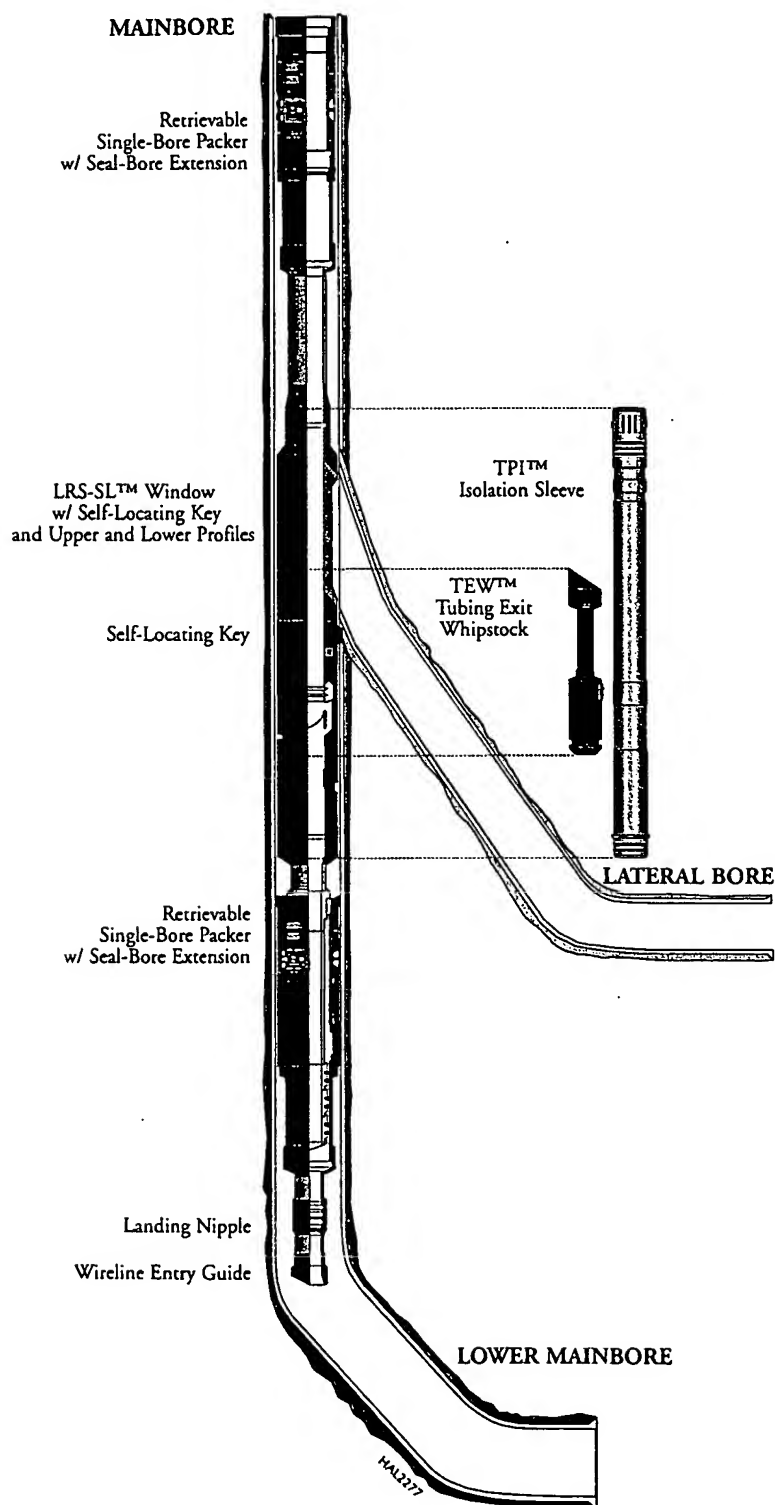


# Multilateral Services *Profile*

## LRS-SL™ Self-Locating Lateral Re-entry System BranchMaster™ Lateral Access Completion Systems



### Application

The LRS-SL™ completion system is specifically designed for multilateral wells that require re-entry capability to access the lateral(s) through the completion during the life of the well. This capability eliminates the requirement to pull the completion should access be required to the lateral for cleaning, stimulation, zonal isolation, or data acquisition. The LRS-SL™ system utilizes a miniature window system that is an integral part of the production string and that is equipped with landing profiles and seal bores to enable setting of deflectors for lateral access or isolation sleeves for lateral control. The LRS-SL™ system is equipped with a self-locating key to allow installation in conventional milled windows at the optimum azimuth and depth for lateral re-entry operations.

### Features

- Incremental completion system for through-tubing lateral re-entry in levels 2, 3, and 4 multilateral wells
- Utilizes self-locating key
- Selective lateral re-entry access with wireline, coiled tubing, or workstring utilizing the TEW™ tubing exit whipstock
- Selective isolation of lateral using TPI™ through-tubing pressure isolation sleeve
- Control of lateral production using choke sleeve
- Selective frac of either mainbore or lateral to 10,000 psi using straddle sleeve
- Re-entry whipstocks and sleeves can be run on wireline or coiled tubing
- Use of crimp seal technology to maximize IDs

### Benefits

- Lateral re-entry without need to pull completion
- Applicable to existing (re-entry) or new multilateral wells
- Incremental modular system can be used to upgrade existing junctions
- Systems can be stacked in series
- Can be used at all inclinations and azimuths

**LRS-SL™ Completion  
in a Conventional Milled Junction  
Level 2, 3, or 4 Through-Tubing Access Both Bores**

# Multilateral Services *Specifications*

## LRS-SL™ Self-Locating Lateral Re-entry System BranchMaster™ Lateral Access Completion Systems



### Typical Installation Sequence

- Run in hole with lower packer assembly and set.
- Run in hole LRS-SL™ window and upper packer assembly and set in latch coupling. Pressure up to set packers.
- Install upper completion and seal into upper packer.
- Run in hole wireline/coil and pull isolation sleeve.
- Flow well.
- Further options to re-enter lateral can be done using the TEW™ system or selective flow control can be accomplished using plugs or isolation sleeves.

| LRS-SL™ System Specifications                |   |  |  |
|--|---|--|--|
| TAML Level 2, 3, or 4 Completion             |   |  |  |
| System casing size                           | 4-1/2 in.<br>114.3 mm   | 7 in.<br>177.8 mm  | 9-5/8 in.<br>244.5 mm  |
| Casing weight                                | 14-15.5 lb/ft   | 26-29 lb/ft  | 43-47 lb/ft  |
| Lateral hole size                            | 4-3/4 in.<br>120.6 mm   | 6 in.<br>152.4 mm  | 8-1/2 in.<br>215.9 mm  |
| Lateral liner size                           | 3-1/2 in.<br>88.9 mm  | 4-1/2 in.<br>114.3 mm  | 7 in.<br>177.8 mm  |
| System size, tubing size, and profile sizes* | 4-1/2 in. x 2-7/8 in. x 2.250 in.   | 7 in. x 3-1/2 in. x 2.750 in.<br>7 in. x 4-1/2 in. x 3.812 in. | 9-5/8 in. x 4-1/2 in. x 3.437 in.<br>9-5/8 in. x 4-1/2 in. x 3.750 in.<br>9-5/8 in. x 4-1/2 in. x 3.812 in.<br>9-5/8 in. x 5-1/2 in. x 3.812 in. |
| Re-entry                                     | Through-tubing re-entry to lateral using wireline or coiled tubing<br>Through-tubing re-entry to lower mainbore using wireline or coiled tubing |  |  |
| Isolation                                    | Full isolation of lateral or mainbore using TPI™ isolation sleeve (lateral isolation) or bridge plug (mainbore isolation)                       |  |  |

\*Casing x upper and lower tubing size x profile size

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DRILLING SERVICES

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